

Gary S Firestein

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

10,010
citations

41
h-index

95
g-index

95
ext. papers

12,026
ext. citations

9.3
avg, IF

6.91
L-index

#	Paper	IF	Citations
85	Evolving concepts of rheumatoid arthritis. <i>Nature</i> , 2003 , 423, 356-61	50.4	2588
84	Fibroblast-like synoviocytes: key effector cells in rheumatoid arthritis. <i>Immunological Reviews</i> , 2010 , 233, 233-55	11.3	1131
83	Rheumatoid arthritis. <i>Nature Reviews Disease Primers</i> , 2018 , 4, 18001	51.1	750
82	Duality of fibroblast-like synoviocytes in RA: passive responders and imprinted aggressors. <i>Nature Reviews Rheumatology</i> , 2013 , 9, 24-33	8.1	525
81	Invasive fibroblast-like synoviocytes in rheumatoid arthritis. Passive responders or transformed aggressors?. <i>Arthritis and Rheumatism</i> , 1996 , 39, 1781-90		510
80	Defining inflammatory cell states in rheumatoid arthritis joint synovial tissues by integrating single-cell transcriptomics and mass cytometry. <i>Nature Immunology</i> , 2019 , 20, 928-942	19.1	369
79	DNA methylome signature in rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2013 , 72, 110-7	2.4	241
78	Gene expression (collagenase, tissue inhibitor of metalloproteinases, complement, and HLA-DR) in rheumatoid arthritis and osteoarthritis synovium. Quantitative analysis and effect of intraarticular corticosteroids. <i>Arthritis and Rheumatism</i> , 1991 , 34, 1094-105		229
77	Rheumatoid arthritis and p53: how oxidative stress might alter the course of inflammatory diseases. <i>Trends in Immunology</i> , 2000 , 21, 78-82		220
76	Signal transduction and transcription factors in rheumatic disease. <i>Arthritis and Rheumatism</i> , 1999 , 42, 609-21		173
75	How important are T cells in chronic rheumatoid synovitis?: II. T cell-independent mechanisms from beginning to end. <i>Arthritis and Rheumatism</i> , 2002 , 46, 298-308		172
74	Fibroblast-like synoviocytes support B-cell pseudoemperipolesis via a stromal cell-derived factor-1- and CD106 (VCAM-1)-dependent mechanism. <i>Journal of Clinical Investigation</i> , 2001 , 107, 305-15	15.9	136
73	Restoring synovial homeostasis in rheumatoid arthritis by targeting fibroblast-like synoviocytes. <i>Nature Reviews Rheumatology</i> , 2020 , 16, 316-333	8.1	130
72	Pre-rheumatoid arthritis: predisposition and transition to clinical synovitis. <i>Nature Reviews Rheumatology</i> , 2012 , 8, 573-86	8.1	125
71	Prostaglandins increase proMMP-1 and proMMP-3 secretion by human ciliary smooth muscle cells. <i>Current Eye Research</i> , 1996 , 15, 869-75	2.9	125
70	The JAK inhibitor CP-690,550 (tofacitinib) inhibits TNF-induced chemokine expression in fibroblast-like synoviocytes: autocrine role of type I interferon. <i>Annals of the Rheumatic Diseases</i> , 2012 , 71, 440-7	2.4	103
69	Regulation of DNA methylation in rheumatoid arthritis synoviocytes. <i>Journal of Immunology</i> , 2013 , 190, 1297-303	5.3	98

68	Invasiveness of synovial fibroblasts is regulated by p53 in the SCID mouse in vivo model of cartilage invasion. <i>Arthritis and Rheumatism</i> , 2001 , 44, 676-81		96
67	Metabolomics in rheumatic diseases: desperately seeking biomarkers. <i>Nature Reviews Rheumatology</i> , 2016 , 12, 269-81	8.1	95
66	Joint-specific DNA methylation and transcriptome signatures in rheumatoid arthritis identify distinct pathogenic processes. <i>Nature Communications</i> , 2016 , 7, 11849	17.4	87
65	An imprinted rheumatoid arthritis methylome signature reflects pathogenic phenotype. <i>Genome Medicine</i> , 2013 , 5, 40	14.4	83
64	Mechanisms of methotrexate action in rheumatoid arthritis. Selective decrease in synovial collagenase gene expression. <i>Arthritis and Rheumatism</i> , 1994 , 37, 193-200		83
63	PI3 kinase β is a key regulator of synoviocyte function in rheumatoid arthritis. <i>American Journal of Pathology</i> , 2012 , 180, 1906-16	5.8	82
62	IL-6 and matrix metalloproteinase-1 are regulated by the cyclin-dependent kinase inhibitor p21 in synovial fibroblasts. <i>Journal of Immunology</i> , 2003 , 170, 838-45	5.3	82
61	p53 overexpression in synovial tissue from patients with early and longstanding rheumatoid arthritis compared with patients with reactive arthritis and osteoarthritis. <i>Arthritis and Rheumatism</i> , 1999 , 42, 948-53		79
60	Comprehensive epigenetic landscape of rheumatoid arthritis fibroblast-like synoviocytes. <i>Nature Communications</i> , 2018 , 9, 1921	17.4	74
59	Acquisition, culture, and phenotyping of synovial fibroblasts. <i>Methods in Molecular Medicine</i> , 2007 , 135, 365-75		73
58	Dominant-negative p53 mutations in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 1999 , 42, 1088-92		72
57	The T cell cometh: interplay between adaptive immunity and cytokine networks in rheumatoid arthritis. <i>Journal of Clinical Investigation</i> , 2004 , 114, 471-4	15.9	67
56	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. <i>Arthritis Research and Therapy</i> , 2018 , 20, 139	5.7	60
55	DNA Methylome Signature in Synoviocytes From Patients With Early Rheumatoid Arthritis Compared to Synoviocytes From Patients With Longstanding Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2015 , 67, 1978-80	9.5	59
54	Antiinflammatory functions of p38 in mouse models of rheumatoid arthritis: advantages of targeting upstream kinases MKK-3 or MKK-6. <i>Arthritis and Rheumatism</i> , 2012 , 64, 2887-95		59
53	Hexokinase 2 as a novel selective metabolic target for rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2018 , 77, 1636-1643	2.4	57
52	Modulation of fibroblast-mediated cartilage degradation by articular chondrocytes in rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2000 , 43, 2531-6		54
51	PUMA regulation and proapoptotic effects in fibroblast-like synoviocytes. <i>Arthritis and Rheumatism</i> , 2006 , 54, 587-92		51

50	Chikungunya Arthritis Mechanisms in the Americas: A Cross-Sectional Analysis of Chikungunya Arthritis Patients Twenty-Two Months After Infection Demonstrating No Detectable Viral Persistence in Synovial Fluid. <i>Arthritis and Rheumatology</i> , 2018 , 70, 585-593	9.5	48
49	Inhibiting inflammation in rheumatoid arthritis. <i>New England Journal of Medicine</i> , 2006 , 354, 80-2	59.2	48
48	Phosphoinositide 3-kinase $\bar{\Gamma}$ regulates migration and invasion of synoviocytes in rheumatoid arthritis. <i>Journal of Immunology</i> , 2014 , 192, 2063-70	5.3	46
47	Epigenetic alterations in rheumatoid arthritis fibroblast-like synoviocytes. <i>Epigenomics</i> , 2017 , 9, 479-492	4.4	44
46	Frequency of Chronic Joint Pain Following Chikungunya Virus Infection: A Colombian Cohort Study. <i>Arthritis and Rheumatology</i> , 2018 , 70, 578-584	9.5	43
45	Integrative omics analysis of rheumatoid arthritis identifies non-obvious therapeutic targets. <i>PLoS ONE</i> , 2015 , 10, e0124254	3.7	41
44	The Rheumatoid Arthritis Risk Gene LBH Regulates Growth in Fibroblast-like Synoviocytes. <i>Arthritis and Rheumatology</i> , 2015 , 67, 1193-202	9.5	39
43	Protein tyrosine phosphatase expression profile of rheumatoid arthritis fibroblast-like synoviocytes: a novel role of SH2 domain-containing phosphatase 2 as a modulator of invasion and survival. <i>Arthritis and Rheumatism</i> , 2013 , 65, 1171-80		39
42	p53 tumor suppressor gene mutations in fibroblast-like synoviocytes from erosion synovium and non-erosion synovium in rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2005 , 7, R12-8	5.7	39
41	Epigenetics of inflammatory arthritis. <i>Current Opinion in Rheumatology</i> , 2018 , 30, 188-196	5.3	37
40	Anti-Inflammatory Effects and Joint Protection in Collagen-Induced Arthritis after Treatment with IQ-1S, a Selective c-Jun N-Terminal Kinase Inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015 , 353, 505-16	4.7	36
39	Role of MAPK kinase 6 in arthritis: distinct mechanism of action in inflammation and cytokine expression. <i>Journal of Immunology</i> , 2009 , 183, 1360-7	5.3	34
38	Anti-inflammatory effects of adenosine kinase inhibitors in acute and chronic inflammation. <i>Drug Development Research</i> , 1996 , 39, 371-376	5.1	34
37	Rheumatoid Arthritis Naive T Cells Share Hypermethylation Sites With Synoviocytes. <i>Arthritis and Rheumatology</i> , 2017 , 69, 550-559	9.5	32
36	LBH Gene Transcription Regulation by the Interplay of an Enhancer Risk Allele and DNA Methylation in Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2016 , 68, 2637-2645	9.5	31
35	Targeting phosphatase-dependent proteoglycan switch for rheumatoid arthritis therapy. <i>Science Translational Medicine</i> , 2015 , 7, 288ra76	17.5	30
34	Abnormal enhancer methylation promotes rheumatoid arthritis fibroblast-like synoviocyte aggressiveness and joint inflammation. <i>JCI Insight</i> , 2016 , 1,	9.9	29
33	Interactive cytokine regulation of synoviocyte lubricant secretion. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1329-37	3.9	27

32	Distinct ON/OFF fluorescence signals from dual-responsive activatable nanoprobe allows detection of inflammation with improved contrast. <i>Biomaterials</i> , 2017 , 133, 119-131	15.6	24
31	TGF β -responsive tyrosine phosphatase promotes rheumatoid synovial fibroblast invasiveness. <i>Annals of the Rheumatic Diseases</i> , 2016 , 75, 295-302	2.4	24
30	Pathogenesis of rheumatoid arthritis: how early is early?. <i>Arthritis Research and Therapy</i> , 2005 , 7, 157-9	5.7	24
29	Chronic Joint Pain 3 Years after Chikungunya Virus Infection Largely Characterized by Relapsing-remitting Symptoms. <i>Journal of Rheumatology</i> , 2020 , 47, 1267-1274	4.1	22
28	PTPN14 phosphatase and YAP promote TGF β signalling in rheumatoid synoviocytes. <i>Annals of the Rheumatic Diseases</i> , 2019 , 78, 600-609	2.4	18
27	Histamine and Histamine H4 Receptor Promotes Osteoclastogenesis in Rheumatoid Arthritis. <i>Scientific Reports</i> , 2017 , 7, 1197	4.9	18
26	PUMA gene delivery to synoviocytes reduces inflammation and degeneration of arthritic joints. <i>Nature Communications</i> , 2017 , 8, 146	17.4	18
25	Regulation of the Cell Cycle and Inflammatory Arthritis by the Transcription Cofactor Gene. <i>Journal of Immunology</i> , 2017 , 199, 2316-2322	5.3	18
24	Synoviocyte-targeted therapy synergizes with TNF inhibition in arthritis reversal. <i>Science Advances</i> , 2020 , 6, eaba4353	14.3	16
23	Regulation and function of apoptosis signal-regulating kinase 1 in rheumatoid arthritis. <i>Biochemical Pharmacology</i> , 2018 , 151, 282-290	6	15
22	Receptor Protein Tyrosine Phosphatase β -Mediated Enhancement of Rheumatoid Synovial Fibroblast Signaling and Promotion of Arthritis in Mice. <i>Arthritis and Rheumatology</i> , 2016 , 68, 359-69	9.5	14
21	Common mechanisms in immune-mediated inflammatory disease. <i>Journal of rheumatology Supplement, The</i> , 2005 , 73, 8-13; discussion 29-30		13
20	Computationally expanding Infinium HumanMethylation450 BeadChip array data to reveal distinct DNA methylation patterns of rheumatoid arthritis. <i>Bioinformatics</i> , 2016 , 32, 1773-8	7.2	12
19	Biomedicine. Every joint has a silver lining. <i>Science</i> , 2007 , 315, 952-3	33.3	11
18	PATHOGENESIS OF RHEUMATOID ARTHRITIS: THE INTERSECTION OF GENETICS AND EPIGENETICS. <i>Transactions of the American Clinical and Climatological Association</i> , 2018 , 129, 171-182	0.9	11
17	The Cytokine Profile in Acute Chikungunya Infection is Predictive of Chronic Arthritis 20 Months Post Infection. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	11
16	Joint Location-Specific JAK-STAT Signaling in Rheumatoid Arthritis Fibroblast-like Synoviocytes. <i>ACR Open Rheumatology</i> , 2019 , 1, 640-648	3.5	10
15	A multisite study of performance drivers among institutional review boards. <i>Journal of Clinical and Translational Science</i> , 2017 , 1, 192-197	0.4	9

14	Differential regulation of anti-inflammatory genes by p38 MAP kinase and MAP kinase kinase 6. <i>Journal of Inflammation</i> , 2014 , 11, 14	6.7	8
13	Toreforant, an orally active histamine H-receptor antagonist, in patients with active rheumatoid arthritis despite methotrexate: mechanism of action results from a phase 2, multicenter, randomized, double-blind, placebo-controlled synovial biopsy study. <i>Inflammation Research</i> , 2019 , 68, 261-274	7.2	4
12	Synovium 2017 , 20-33		3
11	Lasp1 regulates adherens junction dynamics and fibroblast transformation in destructive arthritis. <i>Nature Communications</i> , 2021 , 12, 3624	17.4	3
10	Persistent chikungunya arthritis in Roraima, Brazil. <i>Clinical Rheumatology</i> , 2020 , 39, 2781-2787	3.9	2
9	Distinct DNA Methylation Patterns of Rheumatoid Arthritis Peripheral Blood and Synovial Tissue T Cells. <i>ACR Open Rheumatology</i> , 2021 , 3, 127-132	3.5	2
8	Persistent Joint Pain Following Arthropod Virus Infections. <i>Current Rheumatology Reports</i> , 2021 , 23, 26	4.9	1
7	Clinical features of patients with anti-neutrophil cytoplasmic autoantibodies targeting native myeloperoxidase antigen. <i>Modern Rheumatology</i> , 2013 , 23, 963-971	3.3	0
6	IgG Epitopes Processed and Presented by IgG B Cells Induce Suppression by Human Thymic-Derived Regulatory T Cells. <i>Journal of Immunology</i> , 2021 , 206, 1194-1203	5.3	0
5	Tender and swollen joint counts are poorly associated with disability in chikungunya arthritis compared to rheumatoid arthritis. <i>Scientific Reports</i> , 2021 , 11, 18578	4.9	0
4	Crosstalk between CD4 T cells and synovial fibroblasts from human arthritic joints promotes hyaluronan-dependent leukocyte adhesion and inflammatory cytokine expression in vitro.. <i>Matrix Biology Plus</i> , 2022 , 14, 100110	5.1	0
3	Apoptosis in Rheumatoid Arthritis 169-186		
2	A framework and road map for rapid start-up and completion of a COVID-19 vaccine trial: A single clinical trial site experience.. <i>Journal of Clinical and Translational Science</i> , 2022 , 6, e21	0.4	
1	Suppressed DNA Repair Mechanisms in Rheumatoid Arthritis. <i>Immune Network</i> , 2002 , 2, 208	6.1	